

POLUKHIN, P.I.; KUDRIAVTSEV, A.S.; DEGTIARENKO, V.K.; LEONT'YEV, S.A.;
RYABINKOV, V.T.

Investigating temperature conditions in the operation of rolls on
the 2500 MM rolling mill: Stal' 23 no.9:819-824 S '63.
(MIRA 16:10)

1. Moskovskiy institut stali i splavov i Magnitogorskiy metallurgi-
cheskiy kombinat.

(N.) L 16842-66 EWT(m)/EWP(c)/EWA(d)/EWP(t)/EWP(k) IJP(c) MTW/ID/IM
ACC NR: AM0000293 Monograph UR/

Ryabinok, Aleksey Gerasimovich

Electrochemical dimensional machining of metals and alloys (Elektrokhimicheskaya razmernaya obrabotka metallov i splavov) [Leningrad] Lenizdat, 1965. 156 p. illus., biblio. 3500 copies printed.

TOPIC TAGS: machining, electrochemical machining, metal machining, machine tool, electrochemical dimensional machining

PURPOSE AND COVERAGE: This book is intended for technological engineers and qualified workers. It can be also used as a textbook for students of technical and higher technical schools of machine building. The book reviews the basic principles and technological properties of electrochemical dimensional machining of metals and cermets. Information about equipment and the application of electrochemical machining in domestic and foreign practice is given.

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2. General principles of the process -- 8
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ACC NR: AM6000293

5

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SUB CODE: 13/ SUBM DATE: 07Jul65/ ORIG REF: 020/ OTH REF: 007

Cord 2/2 MC

GRIGOR'YEV, B.V.; KIPELMAN, S.Ya.; IVANOV, G.F.; RYABINOK, A.G.,
red.; TELYASHOV, R.Kh., red.izd-va; GVINTS, V.L., tekhn.red.

[New method of anode mechanical working of metals with a
band] Novyi sposob obrabotki metallov metodom anodnogo to-
chenia lentoi. Leningrad, 1963. 15 p. (Leningradskii dor
nauchno-tehnicheskoi propagandy. Obmen передовым опытом.
Seria: Elektrotehnologicheskie protsessy i ustroistva,
no.8) (MIHA 17:4)

RYABINOV, D.A., dots.; KISLOV, I.A., st. prep.

[Fundamentals of projection with numerical marking]
Osnovy proektsii s chislovyi otmetkami. Moskva, Mosk.
sel'khoz. Akad. im. Timiriazeva, 1962. 32 p.
(MIRA 17:3)

RYABINOV, D.L., kand.tekhn.nauk, dots.

"Circulating power" in mechanical circuits. Trudy NIMISKH 9:41-52
'59. (MIRA 13:11)

(Tractors--Dynamics)

RYABINOV, D.L., kand.tekhn.nauk

Applying Ananov's method to nondevelopable surfaces. Trudy MIMESKU
4 no.1:95-100 '59. (MIRA 13:10)
(Geometry, Descriptive)

RYABINOV, D.L., kand.tekhn.nauk

Plotting trajectories of points by the methods of descriptive geometry.
Trudy MIMESKH 4 no.1:101-111 '59. (MIRA 13:10)
(Geometry, Descriptive)

ALPEROV, V.I.; PETROV, P.A., kand.tekhn.nauk; ~~RYABINKOV, G.M.~~, kand.
tekhn.nauk

Use of a high-voltage discharge to heat a supersonic flow. Trudy
MFTI no.4:90-101 '59. (MIRA 13:9)
(Electric discharges) (Aerodynamics, Supersonic)

S/123/60/000/008/013/017
A004/A001

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 8, p. 125,
38233

AUTHOR: Ryabinok, A.G.

TITLE: Electric Profiling and Sharpening of Hard-Alloy Profile Cutters

PERIODICAL: V sb.: Elektr. i ul'trazvuk, metody obrabotki materialov, Leningrad,
Lenizdat, 1958, pp. 9-16

TEXT: The author designed and introduced built-up milling cutters with mechanically fastened changeable hard-alloy bits and rectangular flanks, designated for the machining of turbine blades. Profiling and sharpening of the bits are effected by the anode-mechanical method on the modernized 371 surface grinder. The set of bits (anodes) is fastened in a special magazine on the machine table, while a cast iron disk, the cathode, is mounted on the machine spindle. A P18 (R18) grade steel cutter is fastened on the magazine for the trimming of the profiling disk. For the sharpening of the front edges of the bits an electro-abrasive disk with graphite filler is used, while the bits, fastened on a magnetic plate of the machine tool, perform the role of anodes. Profiling and sharpening

Card 1/2

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A004/A001

JB

Electric Profiling and Sharpening of Hard-Alloy Profile Cutters

are carried out in several operations. After electroabrasive machining the surface finish of the front edge comes up to the 10th or 11th class. The author presents the electric circuit of the modernized machine tool and a table showing the succession of the basic transitions with the profiling and sharpening process. It is pointed out that the application of electric methods in the manufacture and sharpening of single-tooth hard-alloy profiling cutters associated with simultaneous milling increases the cutter efficiency by 50-60% and lowers the cost of cutting tools more than twice. There are 8 figures.
Translator's note: This is the full translation of the original Russian abstract.

B.I.M.

Card 2/2

PLANE 1 BOOK EXPLANATION SW/1201

Novoye y elektricheskoy i ultrazvukovoy obrabotke materialov (New Developments in Electrical and Ultrasonic Machining of Materials) [Leningrad], Lenizdat, 1953. 2nd p. 5,000 copies printed.

Ed. (title page): L.Ya. Popilov; Ed. (inside book): S.I. Borzheva-skaya; Tech. Ed.: P.S. Shirmov.

PURPOSE: This book is intended for technical personnel and production workers.

CONTENT: This is a collection of 20 articles presented at the Third All-Union Conference of the Scientific and Technical Society of the Machine-Building Industry on Electrical and Ultrasonic Machining of Metals, held in Leningrad, 1953. The articles are divided into two parts: the first part contains articles on electrical and ultrasonic machining of metals, and the second part contains articles on the use of electrical and ultrasonic machining of metals. The articles are written by leading experts in the field of electrical and ultrasonic machining of metals.

References follow several of the articles.

Livshits, A.I.; S.S. Podinov; A.I. Zaytsev, and A.I. Kovalev. Some Problems in the Technology and Design of Machines for Electroerosion Machining of Metals. 87

Bozheva, I.S. Electric-Pulse Generators of Bipolar Pulses for Electroerosion Machining of Metals 109

Machishin, L.Ya. Electrical-Pulse Machining of Perforating Grooves 115

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Mikhailin, G.A. Selection of Process Regimes in Electrolytic Contour Machining 145

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AVAILABLE: Library of Congress (DS 1131 .P 63)

COPY 4/4

WJW/JS

2-11-52

RYABINKOV, G. M., TREBIN, F. A., KHRISTIANOVICH, S. A. and MILLIONECHIKOV, M. D.

"Use of Ejectors in Gas-Collecting Networks." Izv. AN SSSR, No. 3(1946)

~~RYABINOV, I.I.~~ KOSTINSKIY, D.N., redaktor; OLMYKH, D.A.,
tekhnicheskiiy redaktor

Sudan. Moskva, Gos.izd-vo geogr.lit-ry, 1957. 38 p. (MLRA 10:9)
(Sudan)

RYABINOV, A.

Study circles in technical schools. Prof.-tekh.obr. 12 no.3:
32 Mr '55. (MIRA 8:5)

1. Zamestitel' direktora po uchebno-proizvodstvennoy chasti
remeslennogo uchilishcha po mekhanizatsii sel'skogo khosay-
stva No. 5 (Nikolayev)
(Technical education)

RYABINOV, D., inzh.

Using foam concrete in large-panel construction. *Biul. tekhn. inform.* 5
no. 1:28 Ja '59. (MIRA 12:4)

(Pervoural'sk--lightweight concrete)

RYABINOV, M.G.; TATIYEVSKIY, V.M.; VOLYNSKIY, R.F.

In the Termez Division. Put' i put, khoz. 3 no.6:6-7 '64. (MIRA 17:9)

1. Termezskaya distantziya puti Sredneaziataskoy darogi.

RYABINOV, M.G.; VOLYNSKIY, R.F.; KANTOR, V.B., inzh., retsenzant;
SERGEYEVA, A.I., inzh., red.

[Track division of communist labor; work practices of the
Tartu track division of the Baltic Railroad] Distantzia
puti kommunisticheskogo truda; opyt raboty Tartuskoj dis-
tantsii puti Pribaltiiskoi dorogi. Moskva, "Transport,"
1964. 60 p. (MIRA 17:4)

IL'IN, Lev Mikhaylovich; KYABINOV, Mark Grigor'yevich; FISENKO, V.I.,
retsensent; KOLTUNOVA, M.P., red.; VOROTNIKOVA, L.F., tekhn.
red.

[Establishing norms for track work and its technology] Normiro-
vanie putevykh rabot i-ikh tekhnologii. Moskva, Transzheldorizdat,
1962. 163 p. (MIRA 15:6)
(Railroads—Maintenance and repair)
(Production standards)

RYABINOV, M.G. (Leningrad)

Production norms for railroad workers must be established
on a scientific basis. Put' i put.khoz. 10 no.1:16-19
'66.

(MIPA 19:1)

69383

S/136/60/000/04/022/025
E193/E283

185100

AUTHORS: Beresnev, B. I., Vereshchagin, L. F., and Ryabinin, Yu. N.
TITLE: On Extrusion of Metals With the Aid of Liquid Under High Pressure

PERIODICAL: Tsvetnyye metally, 1960, Nr 4, pp 84-85 (USSR)

ABSTRACT: The results of investigation on plastic flow of metals, subjected to high hydrostatic pressure, have indicated the possibility of modifying the present extrusion process by replacing the rigid ram with a liquid under high pressure. The principle of the classical extrusion process is illustrated in Fig 1a. Fig 1b shows the modified process; in this case the billet (2), placed in the container (1), is forced through the die aperture (3) by liquid supplied from the high-pressure generator. Of course, arrangements can be made for the metal emerging from the die aperture, not straight in the surrounding atmosphere, but into a vessel in which high hydrostatic pressure is maintained; this arrangement is illustrated in Fig 1v. These two variants of the new extrusion method were studied in the Institutes of Physics of High Pressures and Metal Physics of the AS USSR, with the view of establishing the

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E193/E283

On Extrusion of Metals With the Aid of Liquid Under High Pressure

optimum operating conditions. The first problem to be investigated was associated with the fact that not only the magnitude of pressure necessary to force the metal through the die, but also the quality of the extruded metal, are affected by the nature of the liquid employed. The viscosity of some liquids, subjected to high pressure, rapidly increases and a liquid that has been "solidified" in this manner can damage the extruded material; it is for this reason that only liquids whose viscosity is unaffected by high pressure can be used in this application. To lower the extrusion pressure, it is advisable to apply a thin layer of a lubricant on the extrusion billet. (Quite satisfactory results were obtained with water as the high-pressure liquid and hypoid oil as the lubricant). It was established that when high-pressure liquid is used in extrusion, it is necessary to distinguish between the initial and steady (static and dynamic extrusion) conditions. The transition from the former to the latter is accompanied by a sudden and large drop of the pressure required. The energy, stored in the source of high pressure, accelerates the extruded metal

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E193/E283

On Extrusion of Metals With the Aid of Liquid Under High Pressure

so that it leaves the die at rates as high as several hundred m/sec. Consequently, the volume of extruded material can considerably exceed the capacity of the high pressure generator. In the new extrusion method there is no friction between the billet and the container walls and the friction between the metal and the die is considerably reduced; this cannot but reduce the magnitude of pressure necessary to extrude the metal. This has been confirmed experimentally. Thus, for instance, in the case of aluminium, extruded in an ordinary press to

$$\phi = \frac{F - f_0}{F} = 0.9$$

(ϕ - degree of deformation, F - cross-section area of the billet, f_0 - cross-section area of the extruded rod), a pressure of 18 000 kg/cm² was necessary; a pressure of only 4500 kg/cm² was required in the new method. Some of the defects of material extruded by the standard method are associated with friction between the extruded metal and the walls of the container and the die; since

Card 3/4

CA

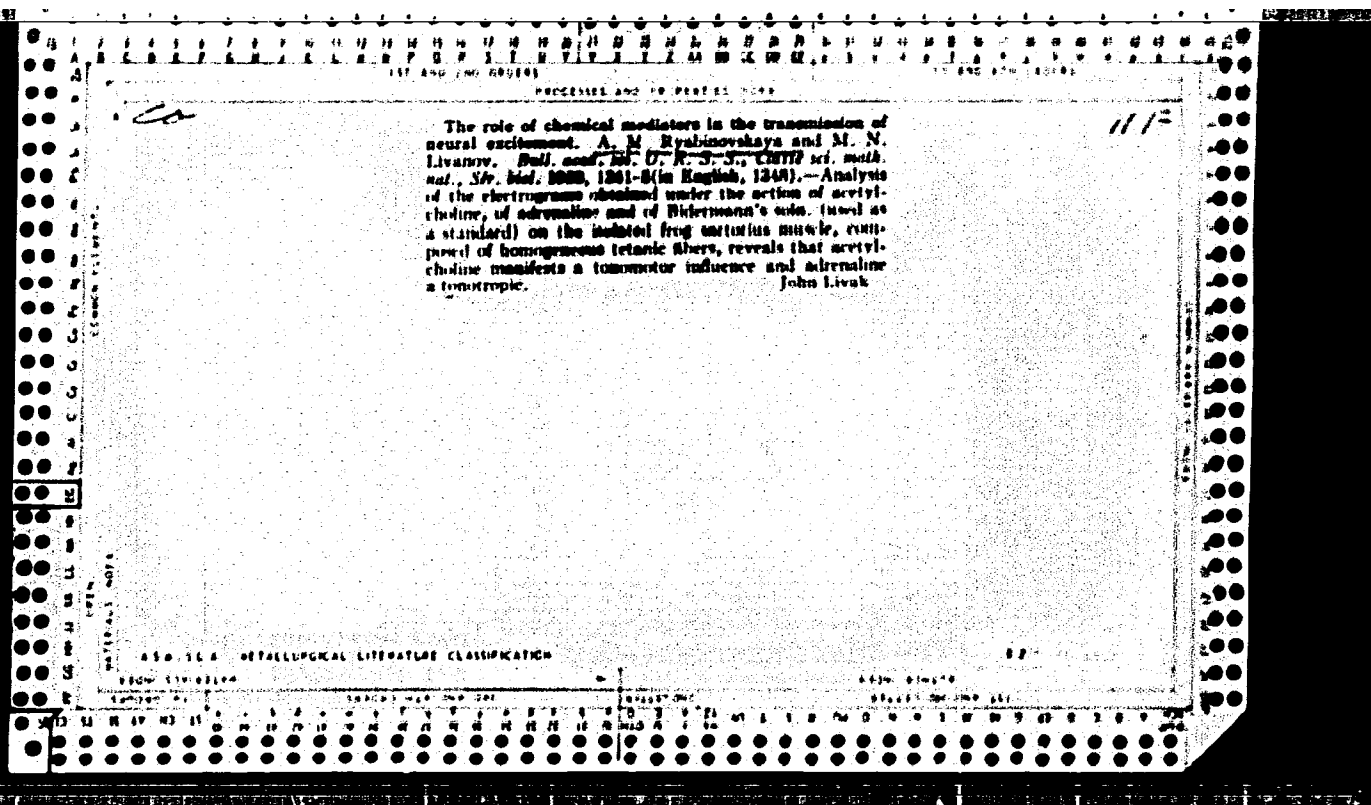
11F

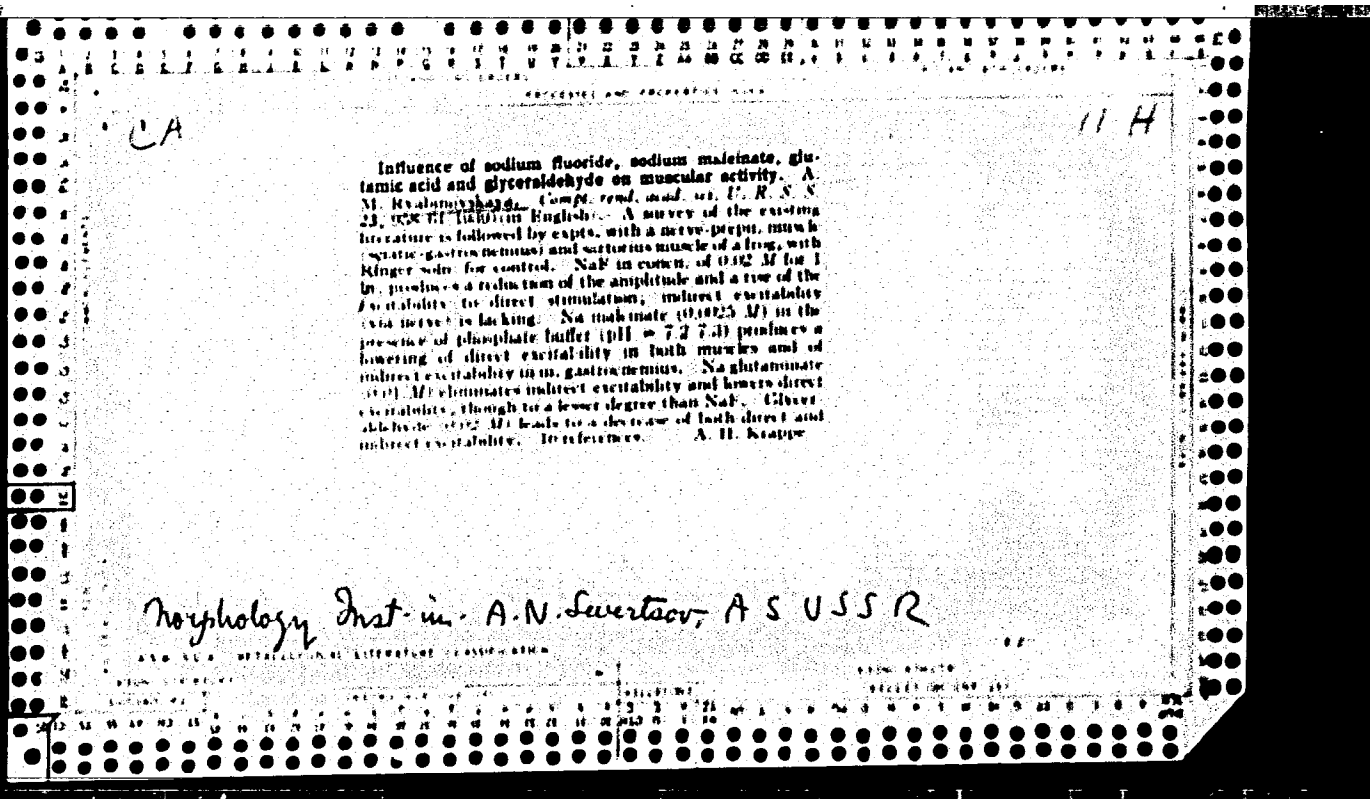
PROCESSING AND PERFORMING INDEX

Some data on creatine phosphagen in the ontogenesis of mammals. A. M. Nishchenko. *L'Ann. Biochim. Eksp.*, 9, 761-3 (in French 783-6) (1965).--The amt. of creatine phosphagen in guinea pigs and rabbits differs at different ages; the muscles of a 20-day guinea-pig embryo contain 7-10%, those of a rabbit embryo only trace. A certain correlation between the content of creatine phosphagen and the length of contraction is evident.
H. K. Stefanovich

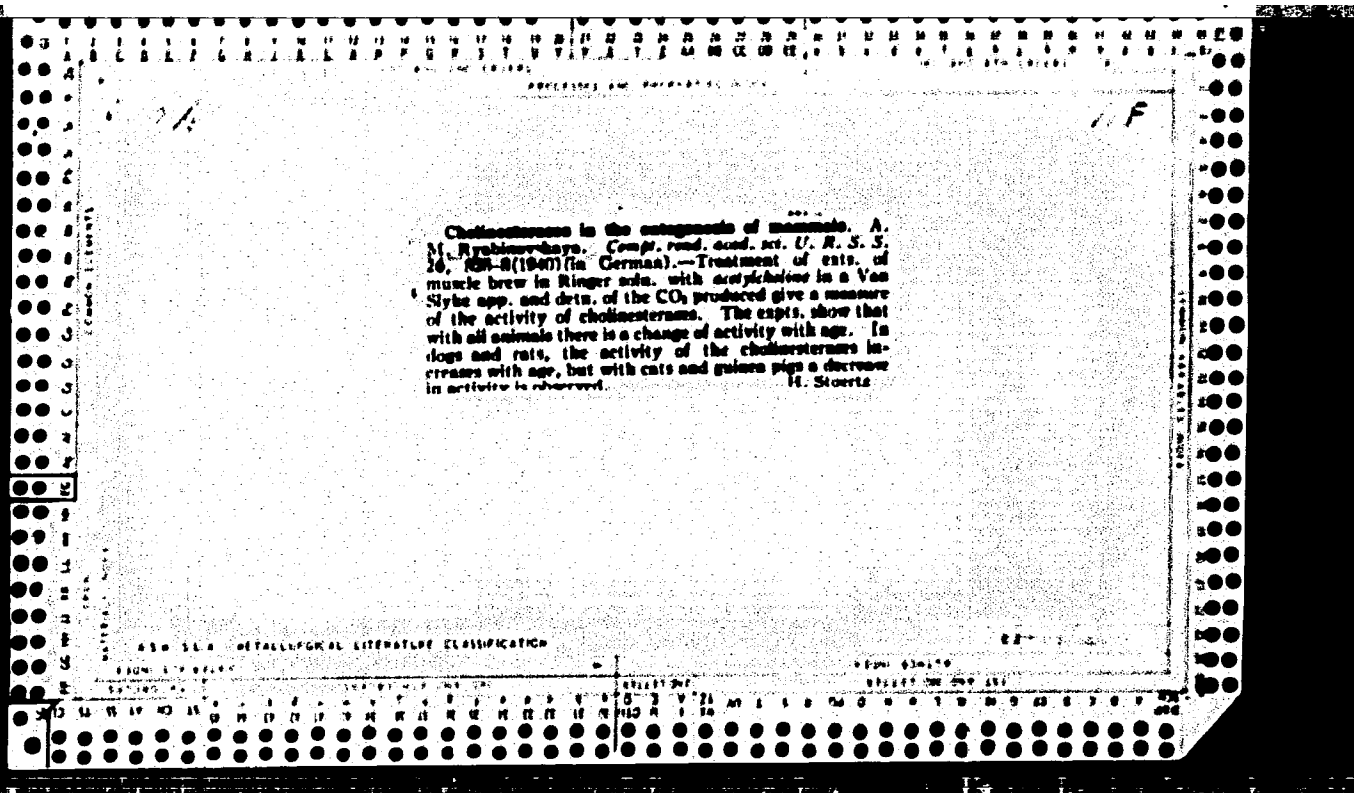
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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117 AND 120 00000		PROCESSING AND PRODUCTION UNIT		118 AND 119 00000													
11F Acetylcholine in the ontogenesis of mammals. A. M. Kyslingyphayn and E. A. Gromova. <i>Bull. Acad. med. Sci. USSR Div. Biol. Sci.</i> 177-9 (1961) (in English). Skeletal muscle exts. of rabbits, rats and guinea pigs, prepd. by the method of Chang and Clabhorn (C. A. 28, 4149), produce acetylcholine contractions of the carinated dorsal muscle of the leech. The concn. of the substance causing this reaction increases with the age of the animals and varies somewhat in different species. Since the hemolymph reduces this effect only partially, a hemolymph-resistant substance must be present besides acetylcholine. The concn. of this fraction is greater in adult animals than in newborn, and least in animals with a short period of embryonic development. A. Horowitz																	
ASB-114 METALLURGICAL LITERATURE CLASSIFICATION																	
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Cholinesterase in the skeletal muscle after degener-
ation of the motor nerve. A. M. Ryabumskaya. *Compt.
rend. acad. sci. U. R. S. S. 27, 97-98(1940)(in German).*
In 11-12-day old rabbits the right ischiadic nerve was cut.
After 3 months the gastrocnemius muscle of the normal
and the denervated limb were studied for their choline-
sterase activity. The skin was cut out in the app. of
Van Slyke according to the method of Rinkel (cf.
C. A. 30, 6152). After the muscle ext. was placed in
the app., 80 mg. of acetylcholine dissolved in water
was added and every 5 min. for 20 min. the quantity of
CO₂ formed was detd. as a measure of the choline-
sterase activity. Results showed that cholinesterase ac-
tivity of the denervated muscle, even more than 2 months
after cutting of its nerve, is considerably higher than the
corresponding normal muscle of the same animal. The
content of CO₂ formed from the AcOH coming from the
hydrolysis of acetylcholine in the course of 20 min. was on
the av. 2.67 and 3.13% for normal and degenerated muscle
resp.

Mauro M. Rath

ASD-52 DETAILING LITERATURE CLASSIFICATION

RYABINOVSKAYA A.M.
LIVANOV, M. N., and RYABINOVSKAYA, A. M.

"On the Problem of Localization of Changes in Electrical Processes of the Brain Cortex of a Rabbit, in Determining the Protective Conditional Reflex to a Rhythmic Irritation. Zef. Zhur., Vol 33, No 5, 1947, p 523. Electrophysiology Laboratory of the Inst of Evolutionary Physiology and Pathology of Higher Nervous Activity imeni Academician I. P. Pavlov.

SO: U-4396

RYABINOVSKAYA, A.M.

Electrophysiological characteristics of experimental disorders of
the higher nervous activity in rabbits. Trudy Inst.vys.nerv.delat.
Ser.fiziol. 1:279-293 '55. (MLRA 9:8)

1. Iz laboratorii elektrofiziologii uslovykh reflektsev, sveduyu-
shchiy M.M.Livanov.

(CONDITIONED RESPONSE
(ELECTROPHYSIOLOGY)

(CEREBRAL CORTIX)

USSR/Medicine - Speech therapy

Card 1/1 : Pub. 86 - 35/35

Authors : Ryabinovskaya, A. M.

Title : Stammering and methods of treatment

Periodical : Priroda 44/2, 127 - 128, Feb 1955

Abstract : Stammering is explained as the convulsive action of the muscles used in speaking. Its disappearance during singing or whispering is taken as a starting point for its cure, which includes practice in slow deliberate speaking and the use of certain remedies to calm the spasmodic action of the speech muscles.

Institution :

Submitted :

RYABINOVSKAYA, A.M.

Electroencephalographic study of the effect of caffeine on the higher nervous activity in healthy rabbits and in those affected by experimental neurosis. Trudy Inst.vys.nerv.deiat. Ser.fiziol. 2:193-220 '56. (MLRA 10:1)

1. Iz laboratorii elektrofiziologii uslovykh refleksov, Zav. - M.N. Livanov.

(CAFFEINE—PHYSIOLOGICAL EFFECT) (NEUROSIS)
(ELECTROENCEPHALOGRAPHY)

RYABINOVSKAYA, A.M.

Effect of phenamine on the electrical activity of the cerebral cortex
and the higher nervous activity in rabbits in normal and neurotic
states. Trudy Inst. vys. nerv. deat. Ser. fiziol. 3:110-120 '59.
(MIRA 12:3)

1. Iz laboratorii elektrofiziologii usloynykh reflektov, zav. - M.N.
Livanov.

(PHENETHYLAMINE) (CONDITIONED RESPONSE)

RYABINOVSKAYA, A. A.		SPECIES AND PROPERTIES DATA	
BC		a-4	
Reference of various physical properties, mechanical properties, and chemical composition of various alloys. The data is presented in a table format. The table is divided into two main sections: 'Physical Properties' and 'Mechanical Properties'. The 'Physical Properties' section includes data on density, melting point, boiling point, and specific heat. The 'Mechanical Properties' section includes data on tensile strength, yield strength, and elongation. The table is organized by alloy type, with each alloy having its own set of data.			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION			
SOURCE INFORMATION		SOURCE ORIGIN	
SOURCE #1		SOURCE #2	
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SOURCE #99		SOURCE #100	

USSR / Pharmacology Toxicology, Analeptics

U-3

Abs Jour : Referat Zh. Biol., No 1, 1958, No 3378

Abstract : and sound stimuli. Large doses of caffeine (1.5-2.5 mg/kg) resulted in phasic phenomena and in protective inhibition in the cortex; conditioned reflexes were completely inhibited. In the presence of experimental neurosis, the administration of even small doses of caffeine, after a brief excitatory phase, lead to an inhibition of conditioned reflexes. With the administration of large doses of caffeine, inhibitory phase of caffeine activity occurred immediately. Thus the mode of action of caffeine on conditioned reflexes and bioelectric activity of the cortex depends upon the dosage of this drug as well as the functional state of the animal's nervous system. During the inhibitory phase of caffeine activity there was frequently noted, in the EEG, the appearance of a group of regular waves of large amplitude with a frequency of 10-14 per second. These waves ("spindles") are apparently also typical of a definite phase of the inhibitory processes which occur during falling asleep

Card : 2/3

RYABINOVSKAYA, A.M.

Influence of aminazine on cerebral cortex function in rabbits.
Trudy Inst.vys.nerv.deiat. Ser.fiziol. 4:152-164 '60.

(MIRA 13:7)

1. Iz Laboratorii elektrofiziologii uslovykh reflektov Instituta
vyshey nervnoy deyatel'nosti AN SSSR. Zaveduyushchiy laborato-
riyey - M.N. Livanov.
(CHLORPROMAZINE) (CEREBRAL CORTEX) (CONDITIONED RESPONSE)

Ryabinovskiy, A. M.

KOSHTOYANTS, Kh. S. / RYABINOVSKIY, A. M.

"Data for Physiology of Skeletal Muscles of Mammals in Various Stages of Individual Development". (Materialy k fiziologii skeletnoy myshtsy mlekopitayushchikh zhivotnykh v razlichnyye stadii individual'nogo razvitiya).

Biol. zh., 1935, t. 4, v. 2, s. 237-242. Literatura 5 nazv.

RYABIN'KIY, B. Ya.

Planirovaniye proizvodstva na metallurgicheskom zavode [planning production in a metallurgical factory/ Moskva, metallurgizdat, 1950.
555 p. Tables.

SO: N/5
740.1
.R98

OSINTSEV, Arkadiy Stepanovich; RYABIN'SKIY, B.Ya., red.; KOVALEVSKIY,
M.A., tekhn. red.

[Technical progress in ferrous metallurgy] Tekhnicheskii
progress v chernoi metallurgii. Moskva, Metallurgizdat,
1963. 51 p. (MIRA 17:2)

RYABIN'KIY, Bronislav Yakovlevich.

[Planning and economics of metallurgical plants] Planirovanie i ekonomika metallurgicheskikh zavodov. Moskva, Metallurgizdat, 1955. 636 p.

(MIRA 8:7)

(Metal industries)

RYABIN'KLY BRONISLAV YAKOVLEVICH

N/5
740.1
.R981

Planirovaniye i ekonomika metallurgicheskikh zavodov (Planning and economics in metallurgical plants) Moskva, Metallurgizdat, 1955.

636 p. tables.

PRIBYLOVSKIY, B.A., inzh.; RYABINSKAYA, L.A., inzh.; BETKER, L.I., inzh.

Ultrasonic testing of uncleaned surfaces of R18 steel. Stal' 23 no.4:
36, Ap '63. (MIPA 16:4)

1. Chelyabinskiy metallurgicheskiy zavod.
(Ultrasonic testing) (Steel ingots--Testing)

RYABINSKAYA, T.F., kand.med.nauk (Moskva)

Coli-enteritis in children of an early age. Med. sostr. 22
no.5:31-35 My'63. (MIRA 16:8)
(INTESTINES ---DISEASES) (CHILDREN---DISEASES)
(ESCHERICHIA COLI)

GOLYSHEVA, G.P.; INTUTINA, Z.M.; KIRICHENKO, G.S.; MAKALETS, B.I.;
RYABINSKAYA, N.B.

Use of equations of regression in the simulation of processes.
Zav.lab. 31 no.10:1224-1225 '65.

(MIRA 19:1)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i
organicheskikh produktov.

SHIRVINDT, B.G.; RYABINSKAYA, T.F.; DOBKINA, M.S.; GOLUBEVA, I.V.;
AL'TGAUZEN, V.P.; NORDSHEYN, R.A.

Clinical picture and diagnosis of coli enteritis in children. *Pediatrics* 37 no.8:77-82 Ag '59. (MIRA 13:1)

1. Iz Instituta pediatrii Ministerstva zdravookhraneniya RSFSR (dir. - A.P. Chernikova, zamestitel' direktora po nauchnoy chasti - prof. N.R. Shastin), Instituta imeni Mechnikova (dir. - A.P. Musychenko) i 4-y gorodskoy klinicheskoy bol'nitsy (zaveduyushchiy infektsionnym otdeleniyem T.F. Yermolovich).

(ENTERITIS, etiology)

(ESCHERICHIA COLI INFECTIONS, in infancy & childhood)

SHIRVINDT, B.G., prof.; RYABINSKAYA, T.F.; DOBKINA, M.S.; NORDSHEYN, R.A.

Clinical characteristics of colienteritis and some immunological
indices in its prevalence. Nauch.trudy Chetv.Mos.gor.klin.boll.
no.1:28-39 '61. (MIRA 16:2)

(INTESTINES--DISEASES) (IMMUNITY) (ESCHERICHIA COLI)

SAVINA, M.F.; POLYAK, L.V.; RYABINSKAYA, T.F.

Experience in the work of the diagnostic children's gastroin-
testinal department of the Fourth Municipal Clinical Hospital.
Nauch. trudy Chetv. Mosk. gor. klin. bol'. no. 1:40-46 '61.

(MIRA 16:2)

1. Otdel ostrykh detskikh infektsiy Gosudarstvennogo nauchno-
issledovatel'skogo instituta Ministerstva zdravookhraneniya
RSFSR (zav. otdelom prof. B.G. Shirvindt, direktor - doktor med.
nauk A.P. Chernikova) i Moskovskaya gorodskaya klinicheskaya
bol'nitsa No.4 (glavnyy vrach - G.F. Papko).

(ALIMENTARY CANAL—DISEASES) (MOSCOW—CHILDREN—HOSPITALS)

RYABINSKIY, B.

Planirovanie Proizvodstva na Metallurgicheskoy Zavode (Planning Production
in a Metallurgical Plant)

555 p. 3.00

SO: Four Continent Book List, April 1954

KOMAROV, D.I.; RYABINOVSKIY, M.M.

Processing new types of raw materials at the Luchkovskiy
Dextrin Factory. Sakh.prom. 33 no.9:58-61 5 '59.
(MIRA 13:1)

1. Luchkovskiy dekstrinovyy zavod.
(Luchkovskiy--Dextrin)

BUROVA, Taisiya Vasil'yevna; RYABINSKAYA, Tamara Fedorovna; POTAPOVA, I.A., red.; BASHMAKOV, G.M., tekhn. red.

[Gastrointestinal diseases in children] Zheludoc'no-kishechnye
zabolevaniia u detei. Moskva, Medgiz, 1962. 14 p.

(MIRA 16:1)

(ALIMENTARY CANAL--DISEASES)

AVANESOVA, A.G.; RYABINSKAYA, T.F.; POLYAK, L.V.

Mycerin therapy in colienteritis and other infectious gastrointestinal diseases in young children. Sov.med. 25 no.6:105-109 Je '61.

(MIRA 15:1)

1. Iz kliniki detskikh infektsiy (zav. - prof. L.D.Lebedev) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova (dir. - dotsent M.G.Sirotkina) i iz infektsionnogo otdela (zav. - prof. B.G.Shirvindt) Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta (dir. - doktor meditsinskikh nauk A.P.Chernikova) RSFSR.
(ANTIBIOTICS) (GASTROENTEROLOGY)

RYABINSKIY, A.S., inzh.

Practices in constructing foundations and supports of bridges
from shells with bearing diaphragms. Transp. stroi. 16 no.1;
12-13 Ja '66. (MIRA 19:1)

RYABINSKIY, B., kapitan dal'nego plavaniya

A contradiction in legal practice. Mor. flot 22 no.514-6 My
'62. (MIRA 15:5)

(Maritime law)

RYABINSKIY, B., kapitan dal'nego plavaniya

Navigation season (annual) charter and its functions. Mor.
flot 22 no.3:13-4 Mr '62. (MIRA 15:2)
(Freight and freightage)

RYABINSKIY, V.M., red.; DOTSENKO, A.A., tekhn.red.

[Program for the training of automobile drivers] Programma
podgotovki shoferov-liubitelei. Moskva, Gos.izd-vo "Fiskul'-
tura i sport," 1958. 34 p. (MIRA 12:6)
(Automobile drivers)

RYABINSKIY
YUR'YEV, Aleksandr Aleksandrovich; RYABINSKIY, V.N., red.; DOTSSENKO, A.A.,
tekhn.red.

[Rifle marksmanship] Sportivnaya strel'ba iz vintovki. Moskva,
Izdatel'stvo "Fizkul'tura i sport," 1957. 455 p. (MIRA 11:2)
(Rifle practice)

RYABINSKIY, V.S.

Significance of disordered venous drainage of the kidney in
the development of acute pyelonephritis; an experimental study.
Urologiya no.5:16-22 '62. (MIRA 15:12)

1. Iz urologicheskoy kliniki (zav. - prof. A.Ya. Pytel') i
tsentral'noy nauchno-issledovatel'skoy laboratorii (zav. ..
doktor E.M. Kogan) II Moskovskogo meditsinskogo instituta
imeni N.I. Pirogova.

(KIDNEYS—DISEASES)

(RENAL VEIN—DISEASES)

GOLIGORSKIY, S.D.; PYTEL', A.Ya.; SHISHOV, I.F.; DZHAVAD-ZADE, M.D.;
RYABINSKIY, V.S.; MEDEL', M.Ye.; YAKUBSON, B.S.; YAZHGUR, F.M.

Reports. Urologia 25 no.1:83-93 Ja-F '60. (MIRA 15:6)
(UROLOGY—ABSTRACTS)

KUCHINSKIY, I.N.; PYTEL', A.Ya.; ZISMAN, I.F.; COLIGORSKIY, S.D.; CHEBANYUK,
G.M.; ZALEVSKIY, R.O.; RYABINSKIY, V.S.; DARENKOV, A.F.;
KHATAVNER, A.I.; SMELOVSKIY, V.P.; BALTER, M.A.

Abstracts. General problems in urology. Urinary bladder.
Urologiia 28 no.5:87-95 S-0'63 (MIRA 17:4)

RYABINSKIY, V.S., kand.med.nauk; RUDOMAN, V.Ye.

Simple test for the determination of the degree of
bacteriuria. Urol. i nefr. no.2:14-19 '65. (MIRA 19:1)

1. Urologicheskaya klinika (zav.- chlen-korrespondent AMN SSSR
prof.A.Ya.Pytel') II Moskovskogo meditsinskogo instituta imeni
N.I.Pirogova.

RYABINSKIY, V.S.

Interstitial cystitis; survey of foreign literature. Urologia 24
no.4:69-74 J1-Ag '59. (MIRA 12:12)

1. Iz urologicheskoy kliniki (zav. - prof. A.Ya. Pytel') II Moskovskogo
meditsinskogo instituta im. N.I. Pirogova.
(CYSTITIS)

RYABINSKIY, V.S.

Etiology and pathogenesis of pyelonephritis. Urologiia no.5:71-
76 '61. (MIRA 14:11)

1. Iz urologicheskoy kliniki (zav. - prof. A.Ya. Pytel') II
Moskovskogo instituta imeni N.I. Pirogova.
(KIDNEYS—DISEASES)

Pyatkovskiy, Ya. I.
 AL'TSHULER, Z.Ye., inzh.; BASTUNSKIY, M.A., inzh.; BERSTEL', V.M., inzh.;
 BIRMANBERG, I.E., inzh.; BOGOPOLSKIY, B.Kh., inzh.; BUKHARIN, S.I.,
 inzh.; GERSHTEYN, B.G., inzh.; GRUSHPOV, L.V., inzh.; DRYYER, G.I.,
 inzh.; DIMERSHTEYN, A.G., inzh.; ZLATOPOL'SKIY, D.S., inzh.; KLANYUK,
 A.V., inzh.; KOZIN, Yu.V., inzh.; LEVITIN, I.P., inzh.; MEL'NIKOV,
 L.P., inzh.; MEL'KUMOV, L.G., inzh.; MADEL', M.B., inzh.; PAVLOV,
 N.A., inzh.; PASLUN, D.A., inzh.; PMSIN, B.Ya., inzh.; PYATKOVSKIY,
 P.I., inzh.; RAZNOSCHIKOV, D.V., inzh.; ROZEMOYER, G.Ya., inzh.;
 ROZENBERG, R.L., inzh.; ROYTENBERG, N.L., inzh.; ~~RYABINSKIY, Ya. I.~~
 inzh.; SYPCHEVSKO, I.I., inzh.; TABACHNIKOV, L.D., inzh.; FEL'DMAN,
 E.S., inzh.; SHTRAKHMAN, G.Ya., inzh.; SHTERMNOAS, U.S., inzh.;
 LEVITIN, I.P., otvetstvennyy red.; STEL'MAKH, A.H., red.isd-va;
 BEKKER, O.G., tekhn.red.

[Overall mechanization and automatization of production processes in
 the coal industry] Kompleksnaya mekhanizatsiya i avtomatizatsiya
 proizvodstvennykh protsessov v ugol'noi promyshlennosti. Pod red.
 IU.V.Kozina i dr. Moskva, Ugletekhizdat, 1957. 82 p. (MIRA 11:3)

1. Gosudarstvennyy proyektno-konstruktorskiy institut. 2. Institut
 Giprougleavtomatizatsiya i Tekhnicheskogo Upravleniya Ministerstva
 ugol'noy promyshlennosti (for all except: Levitin, Stel'makh,
 Bekker)

(Automatic control) (Coal mining machinery)

RYABISHKIN, F. I.

Sugar Industry

My method for washing away light mixtures. Sakh.prom. 27, No. 3, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953. UNCLASSIFIED.

V. Ryabkhov

Radiolokatsionnyye sredstva protivovozdushnoy oborony (by) N. Il'in (1)
V. Ryabkhov. Moskva, DOSAAF, 1962.

146 p. illus., diags., tables.

Bibliography: p. 144-(145)

AKIYAMA, Kh. [Akiyama, Hiroshi]; GUSEV, M.A. [translator]; ZLOMANOV,
V.A. [translator]; RYABKIN, A.G. [translator]; TULINOV, N.N.
[translator]; SMIRNOV, P.I., red.; KHOMYAKOV, A.D., tekhn.red.

[Special detachment 731] Osobyi otriad 731. Moskva, Izd-vo
inostr.lit-ry, 1958. 151 p. Translated from the Japanese.
(MIRA 12:8)

(Manchuria--Bacteriological warfare)

KYABKIN, Boris Pavlovich; KAMINSKIY, Ye.A., red.

[Concealed electric wiring] Skrytye elektroprovodki. Izd.2.,
perer. i dop. Moskva, Izd-vo "Energia," 1964. 61 p.
(Biblioteka elektromontera, no.122) (MIRA 17:4)

RYABKIN, S.B.

Starch and sirup industry of the Ukraine. Sakh. prom. 33 no.2:
41-44 F '59. (MIRA 12:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut Karkhmal'no-
patochnoy promyshlennosti.

(Ukraine--Starch industry)
(Ukraine--Corn products)

67711

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18.9200

AUTHORS: Ryabkina, V.V. and Sharov, B.V. SOV/126-7-3-7/44

TITLE: On the Fine Structure of Crystalline Grains of Uranium¹
(O tonkoy strukture kristallicheskikh zeren urana)

PERIODICAL: Fizika metallov i metallovedeniye, Vol 7, Nr 3, pp 360-362
(USSR)

ABSTRACT: The existence of a fine mosaic structure of uranium grains has been convincingly confirmed in the present work by a structure-sensitive diffraction micro-X-ray photography method. The method is based on decaying X-ray pictures of a portion of the specimen lying very close to the surface under investigation, the distance being of the order of 0.1 mm. Each point on the X-ray picture corresponds to a point of the investigated specimen surface. X-ray exposure was carried out in a special chamber (Ref.3). The most important part of the chamber, the specimen holder, is shown in Fig.1. The specimen (2) is pressed against the supports of the holder (1), as indicated by arrow A. The photographic plate (3) is placed from above on the holder in such a way that one of its ends is kept raised by protrusions B, and the ribs

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On the Fine Structure of Crystalline Grains of Uranium

lean against the vertical surfaces of the holder. The X-ray beam is directed into the narrow gap between the specimen and the photographic plate (as indicated by arrow C) in such a manner as not to illuminate the photo-emulsion. Simultaneous metallographic and X-ray exposures are possible because of the fixed position of the specimen and photographic plate. The arrangement used for observation is shown in Fig.2. By moving the microscope tube it is possible to carry out observations in reflected light, focusing consecutively the picture on the exposed photographic plate and the portion of the metallic surface below it. Natural high purity uranium which had been re-melted in a vacuum of 10^{-4} mm Hg was used for the investigation. Specimens of the required dimensions were cut out by an electric sparking method. The surface under investigation was ground mechanically, after which it was treated electrolytically, removing a deep layer. After thorough washing with water the specimen surface clearly showed granular structure. In Fig.3 the scheme for "direct" reflection of (131) and (112) for a Cr K_α -irradiation is shown. All X-ray pictures of uranium specimens showed that reflections from crystalline grains are fragmented. This ✓

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SOV/126-7-3-7/44

On the Fine Structure of Crystalline Grains of Uranium

proves that a grain of cast uranium consists of blocks which are slightly displaced with respect to one another. The reflecting atomic surfaces determine the fragmented nature of the X-ray reflections because of their mosaic structure. As an illustration a microphotograph of a uranium specimen is shown in Fig.4, and its corresponding diffraction micro-X-ray picture in Fig.5. An investigation of finely grained rolled uranium rods proved to be unsuccessful because of the insufficient resolving power of the method. The mosaic structure of the grains becomes evident after quenching these specimens from the β -phase. There are 5 figures and 3 references, of which 1 is Soviet and 2 French.

ASSOCIATION: ITEF AN SSSR

SUBMITTED: September 21, 1957.

Card 3/3

IGARKIN, I.Ya., Ed.

(Drilling with hydraulic drills in the geological prospecting organizations of Kazakhstan; data from a Republic-wide seminar) (pyt burovia gidroudarniki v geologorazvedochnykh organizatsiyakh Kazakhstana: materialy respublikanskogo seminaru. Almaty, 1963. 50 p. (MIR 17:10)

1. Almaty. Geotekhnicheskii Institut Akad. Nauk Kazakhskoy SSR. Informatsii.

ИТОВА, Л.Я., ред.

[Drilling with hydraulic drills in the geological prospecting organizations of Kazakhstan; data from a Republic-wide seminar] (pyt buronija gidraudarnymi v geologorazvedochnykh organizatsiyakh Kazakhstana: materialy respublikańskogo seminaru. Almaty, 1963. 50 p. (MIR 17:10)

1. Almaty. Gosstran'nyy institut sovetskoy i inostran'noy informatsii.

RYABINSKIY, V.S. (Moskva, Staryye Cheremushki, 1-y Shkol'nyy pereulok,
d.11-a, kv.1)

Pathogenesis of apostematic nephritis. Vest. khir. 89 no.10:47-53
O '62. (MIRA 17:10)

1. Iz urologicheskoy kliniki (zav. - prof. A.Ya. Pytel') 2-go
Moskovskogo meditsinskogo instituta imeni Pirogova.

RYAEKO

Tree Planting

Stakhanov work of the V. S. Bezruk team. Les. khoz. 5 no. 3(42), 1952

Monthly List of Russian Accessions, Library of Congress, July 1952, Unclassified.

RYABKO, Kh.G.; SHVARTSMAN, S.Ye.; SHUL'MAN, S.L.; TOCHENYY, P.A., red.;
UMANETS, V.K., tekhn.red.

[Machine-tool units] Zavod mal'kh agregatnykh stankov.
Agregatnye stanki. Khar'kov, Khar'kovskoe obl.izd-vo, 1958.
39 p. (MIRA 13:1)
(Machine tools)

PHASE I BOOK EXPLOITATION

SOV/4082

Khar'kov. Zavod malykh agregatnykh stankov

Agregatnyye stanki (Unit-Head Machine Tools) [Khar'kov] Khar'kovskoye oblastnoye izd-vo, 1958. 39 p. 2,000 copies printed.

Additional Sponsoring Agency: UkrSSR. Khar'kovskiy ekonomicheskii administrativnyy rayon. Sovet narodnogo khozyaystva.

Author-Compilers: Kh.G. Ryabko, S.Ye. Shvartsman, and S.L. Shul'man; Ed.: P.A. Tochenyy; Tech. Ed.: V.K. Umanets.

PURPOSE: This booklet is intended for prospective buyers and users of small unit-head machine tools.

COVERAGE: The booklet contains information on single-station and multiple-station unit-head machine tools built by the Khar'kov plant. Descriptions of operations performed on the following machines are presented: type KhA-875 single-station drilling machine for machining 15 ports in sleeves of automobile-engine cylinders (65 parts per hour); type KhA-778 high-productivity 10-station semiautomatic machine, built in 1958, for machining housing covers for certain types of oil pumps (65 parts per hour); and type KhA-868 semiautomatic machine, built in

Card 1/2

Unit-Head Machine Tools

SOV/4082

1957, for drilling holes and milling grooves in automobile-engine pistons (400 parts per hour). Photographs and sketches of some unit power heads, accompanied by brief descriptions, are also shown. In the Appendix schematic diagrams and photographs of arrangements of unit power heads for various operations (mainly drilling) are presented. No personalities are mentioned. There are no references.

TABLE OF CONTENTS: None given.

AVAILABLE: Library of Congress (TJ 1185.Z38)

Card 2/2

VK/pw/sfm
10/25/60

RYHOKO, K.H.G.

PHASE 1 BOOK EXPLOITATION 307/1636

25(2)

Devrye mashiny; sornik stroya a novykh mashinakh, motorakh, apparatam i ustroystvakh na Dneprovskikh predpriyatiyakh v period 1956-1958 gg. (New Machines Collection of Articles on New Machines, Apparatus and Appliances Made in Dneprovsk Plant from 1956 to 1958) / Dneprovsk / Dneprovskoye obshchestvo izdatel'stva 1958. 226 p. 6,000 copies printed.

Compiant, P.I. (Ingiz), Scientific Editor V.A. Polshakov (Chief Engineer, Dneprovsk Electromechanical Plant), S.A. Vorobeychik (Candidate of Technical Sciences, Doctor), L.A. Shubenko-Juchin (Chief Machine Designer, Dneprovsk Turbine Plant, and Corresponding Member, Ukrainian SSR Academy of Sciences); 10,000. Donatov, Yech. 1954. M.G. Shvachenko.

REMARKS: This collection of articles is to acquaint the reader with the latest developments and attainments of the Dneprovsk machinery manufacturing industry during the 1956-58 period.

COVERAGE: The book, prepared in the form of a descriptive catalog, presents the latest information on machinery and equipment manufactured by Dneprovsk plants from 1956-58. A detailed description is given of the following machines and equipment: steam turbines, traction, self-propelled chassis, diesel engines, diesel locomotives, machines, tools including unit metal-cutting machines, tools, conveyor and road building machinery, electric power generators, and electrical and electronic instruments. Numerous photographs and electrical and electronic instruments are included in the catalog. The personnel are mentioned. There are no references.

TABLE OF CONTENTS:

Znaga, P.I., Director of the Machinery Manufacturing Division of the Dneprovsk Oblast Committee of the Ukrainian Communist Party. On the Path to Further Technological Progress 3
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Card 2/6

New Machines Collection of Articles (Cont.) 307/1636
Koval', I.A., Chief Designer at the "Dneprovsk" Plant. 84
Standardized Diesel and 94
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Plant, and S.Ye. Shvachenko, Assistant to the Chief Designer. Small Salt Machine Tools
Artyukhin, V.A., Chief Engineer at the "Dneprovsk" Plant. 124
Mobile and Portable Jumping Conveyor DZ-1
Trishchenko, P.B., Director of the "Trishchenko" Machinery Manufacturing Plant. Highly Productive Machines for the Construction Materials Industry 137
Kozlov, P.F., Director of a Plant for Construction Machinery (Equipment) for the Construction Industry 135
Kozlov, P.F., Director of the Plant for Road-Building Machinery. Manufacture of Road-Building Machinery in Dneprovsk 145

Card 3/6

RYABKO, Khariton Grigor'yevich; BRAUN, Mark Naumovich; GIDENAY, Oleg Aleksandrovich; PIVOVAROV, Konstantin Stepanovich; GOLYAEV, Yu.P., inzh., red.; ONISHCHENKO, N.P., inzh., red.

[Small machine-tool units: manufacture and operation] Malye agregatnye stanki; proizvodstvo i ekspluatatsiia. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 169 p.

(MIRA 13:5)

(Machine tools)

AKAMAN, S.P., inzh.; RYABKO, L.P., inzh.

Repair of a VTH 15,000 kv.-a. turbogenerator. Elek sta. 30 no.2:
82-83 F '59. (MIRA 12:3)
(Turbogenerators—Maintenance and repair)

KRAKIV, S.V., podpolkovnik med. sluzhby; RYABKO, N.A., podpolkovnik med. sluzhby

Hygienic of military camps. Voen. med. zhur no.4:62-63 Ap '57

(ARMED FORCES; PERSONNEL,

(MIRA 12:7)

Camps (Rus))

17(6)

SOV/177-58-7-16/28

AUTHORS: Ryabko, N.A., Lieutenant-Colonel of the Medical Corps, Demin, R.I., Captain of the Medical Corps

TITLE: The Medico-hygienic Characteristics of Helio-baths

PERIODICAL: Voenno-meditsinskiy zhurnal, 1958, Nr 7, pp 70-72 (USSR)

ABSTRACT: The author describes a helio-bath to be used in military camps. The project of the bath was worked out by the Moskovskoye otdeleniye nauchno inzhenerno-tekhnicheskogo obshchestva energetikov (Moskva Department of the Scientific Engineering-Technical Society of Power Specialists) and was tested in the Northern Caucasian Military District. The helio-bath is based on heating water by solar energy accumulated by means of a framed window glass orientated to the south at an angle of 45°. Based on

Card 1/2

RYABKO, N.A., podpolkovnik med.sluzhby; DEMIN, R.I., kapitan med.sluzhby

Sanitary and hygienic characteristics of heliobaths. Voen.-med.zhur.
no.7:70-72 JI '58. (MIRA 12:12)

(SUNLIGHT

heliother., sanitary-hyg. characteristics (Rus))

RYABKO, N.A., podpolkovnik meditsinskoy sluzhby

Hygienic characteristics of certain dried foods. Voen.-med.
zhur. no.7:78 J1 '59. (MIRA 12:11)
(FOOD, DRIED)

RYABKO, N. A.

1A 10780

USSR/Medicine - Pediculosis
Medicine - Dermatology

Mar 1947

"The Clinical Picture of Illness Caused by the Pediculus Ventricosus Newport Under Experimental Conditions," N. A. Ryabko, 6 pp

"Vestnik Venerologii i Dermatologii" No 3

Discussion, with three photographic illustrations, leading to the conclusions that the illness leads to a disease of the skin, incidence of the illness does not produce long-term immunity, the cause and nature of the illness permit it to be called a parasitic-toxic dermatitis.

10780

RYABKO, N.A., podpolkovnik meditsinskoy sluzhby

Role of microclimate in the dynamics of colds. Voen.-med. zhur.
no.4:48-51 Ap '56. (MLRA 9:9)

(WEATHER--MENTAL AND PHYSIOLOGICAL EFFECTS)
(COLD (DISEASE))

RYABKO, N. A.

The Problem of the Significance of Microclimate For the
Dynamics of Catarrhal Diseases

Voyenno-meditsinskiy zhurnal, No. 4, April 1956

RYABKO, N.A.

Detection of the cheese fly on Kunashir Island. Med. paras. i paras.
biol. no. 4:359-360 O-D '54. (MLRA 8:2)

(FLIES,

cheese flies, distribution in Russia)

RYABKO, N.A., mayor meditsinskoy sluzhby; AGAPOV, N.I., kapitan meditsinskoy sluzhby.

Experience in the organization of control of the physical conditions and food supply of troops. Voen.-med.shur. no.10:3-6 O '47.

(MLBA 6:11)

(Russia--Army--Sanitary affairs)

RYAGUZOV, Aleksandr Nikolayevich; ~~RYABKO, Dmitriy Grigor'evich~~; VORONCH-
SKIY, V.N., inzhener, retsenzent; SOROKA, M.S., redaktor; RUDENSKIY,
Ya.V., tekhnicheskiiy redaktor

[Electric arc bimetalization of bearings] Elektrodugovaya bimetal-
lizatsiya podshipnikov. Kiev, Gos.nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1957. 98 p. (MLA 10:10)

(Bearings (Machinery)) (Metal spraying)

AL'TSHULER, S.Z., inzhener; LOMONOSOV, M.A., inzhener; ROZENTAL', A.Ya.,
inzhener; RYABKO, N.M., inzhener.

Damage to turbogenerator rotors produced by the British firm
"BTH." Elek.sta. 28 no.9:86-87 S '57. (MIRA 10:11)
(Turbogenerators)

BAVCHENKO, M.A.; GANY, V.V. [Hann, V.V.]; RYABKO, P.V.

Bound magnetoelastic waves in antiferromagnetic substances.
Ukr. fiz. zhur. 9 no.3:283-292 Mr '64. (MIRA 17:9)

1. Fiziko-tehnicheskii Institut AN UkrSSR, Khar'kov.

SAVCHENKO, M.A.; GANN, V.V. [Gann, V.V.]; BYALIK, A.V.

Ferroacoustic resonance in magnetic materials. Ukr. fiz. zhur. 20
no.3:263-274. Apr '64. (MIRA 13:6)

1. Fiziko-tehnicheskii institut AN UkrSSR, Khar'kov.

BAR'YAKHTAR, V.G.; SAVCHENKO, M.A.; GANN, V.V.; RYABKO, P.V.

Coupled magnetoelastic waves in antiferromagnetics with a magnetic structure of the $MnCO_3$ type. Zhur. eksp. i teor. fiz. 47 no.5:1989-1994 N '64. (MIRA 18:2)

1. Fiziko-tekhnicheskii institut AN UkrSSR.

ACCESSION NR: AP4022699

S/0185/64/009/003/0282/0292

AUTHOR: Savchenko, M. A.; Gann, V. V.; Ryabko, P. V.

TITLE: Bound magnetoelastic waves in antiferromagnetics

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 9, no. 3, 1964, 283-292

TOPIC TAGS: magnetoelastic wave, bound magnetoelastic wave, antiferromagnetic substance, magnetostriction, spin wave propagation, sound wave propagation, spin-wave-sound-wave interaction, ponderomotive interaction, magneto-acoustic wave

ABSTRACT: The authors determined the absorption coefficients of sound and the changes in its velocity due to magnetostriction and ponderomotor interaction in antiferromagnetics of two types: type A, when the magnetic moments are oriented, in the absence of an external magnetic field, along a selected axis, and type B, when the magnetic moments lie in a plane perpendicular to the selected axis.

With sufficiently strong external magnetic fields, when the magnetic moments of the sublattices are "overthrown", the resonance coefficients of absorption and the resonance increments to the velocity of sound depend substantially on the external magnetic field.

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Anomalies in the velocities of sound and the absorption coefficients are particularly great in resonance when the wave vector and the sound wave frequency coincide with the wave vector and frequency of the magnetic (spin) wave.

"The authors express deep gratitude to O. I. Akhizer and V. G. Bar'yakhtar for guidance in the performance of this work and for valuable discussion." Orig. art. has: 40 numbered equations.

ASSOCIATION: Fizyko-tekhnichnyy instytut AN Ukr SSR, Kiev (Physico-Technical Institute AN UkrSSR)

SUBMITTED: 02Sep63

DATE ACQ: 08Apr64

ENCL: 00

SUB CODE: PH, GE

NO REF SOV: 006

OTHER: 006

Card 2/2

L 34547-65 EHT(1)/EPA(s)-2 Pt-10 LJP(c) GG

ACCESSION NR: AP5000359

S/0056/64/047/005/1989/1994

AUTHOR: Bar'yakhtar, V. G.; Savchenko, M. A.; Gann, V. V.;
Ryabko, P. V.

TITLE: Coupled magnetoelastic waves in antiferromagnets with
magnetic structure of the MnCO_3 type

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki,
v. 47, no. 5, 1964, 1989-1994

TOPIC TAGS: Antiferromagnetism, magnetostriction, polarization,
acoustic wave interaction, spin wave coupling, ferroacoustic
resonance

ABSTRACT: The substances investigated have weak ferro-
magnetism and a rhombohedral lattice with two magnetic ions
per unit cell. The Hamiltonian is written down in the form
of a sum of the magnetic, elastic, magnetostriction, and in-

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ACCESSION NR: AP5000359

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teraction energies, and it is shown that a transverse wave with polarization vector along the y axis does not interact with the two other acoustic waves, and that only this transverse wave interacts with the low frequency spin waves. The coupling between the sound and spin waves is particularly large at resonance when the spin wave frequency coincides with the frequency of the sound wave. The experimental feasibility of determining exchange integrals from ferroacoustic resonance in such substances is demonstrated. "In conclusion the authors thank O. V. Kovalev for valuable discussions." Orig. art. has: 2 figures and 31 formulas.

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(Physicotechnical Institute, Academy of Sciences UkrSSR)

SUBMITTED: 03Jun64

ENCL: 00

SUB CODE: EM, NP

NR REF SOV: 007

OTHER: 001

Card 2/2